

Joshua J Kas

List of Publications by Year in descending order

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64
papers

3,127
citations

236925

25
h-index

155660

55
g-index

66
all docs

66
docs citations

66
times ranked

4562
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Equation-of-Motion CCSD Cumulant Green's Function. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1799-1807.	5.3	10
2	<i>Ab initio</i> calculation of X-ray and related core-level spectroscopies: Green's function approaches. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 13461-13473.	2.8	3
3	Database of ab initio L-edge X-ray absorption near edge structure. <i>Scientific Data</i> , 2021, 8, 153.	5.3	21
4	Description of Resonant Inelastic X-Ray Scattering in Correlated Metals. <i>Physical Review X</i> , 2021, 11, .	8.9	12
5	Equation-of-Motion Coupled-Cluster Cumulant Green's Function for Excited States and X-Ray Spectra. <i>Frontiers in Chemistry</i> , 2021, 9, 734945.	3.6	8
6	Strengths of plasmon satellites in XPS: Real-time cumulant approach. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	2.1	11
7	Web-based methods for X-ray and photoelectron spectroscopies. <i>Computational Materials Science</i> , 2021, 200, 110814.	3.0	3
8	Advanced calculations of X-ray spectroscopies with <i>FEFF10</i> and Corvus. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1801-1810.	2.4	27
9	Orbital and spin character of doped carriers in infinite-layer nickelates. <i>Physical Review B</i> , 2021, 104, .	3.2	50
10	Noble-metal dark-edge fermiology: Centrifugal barriers, core-hole memory, and the Zeeman Auger effect. <i>Physical Review B</i> , 2021, 104, .	3.2	0
11	Valence-to-core X-ray emission spectroscopy of vanadium oxide and lithiated vanadyl phosphate materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16332-16344.	10.3	10
12	Real-Time Coupled-Cluster Approach for the Cumulant Green's Function. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6983-6992.	5.3	19
13	Unraveling intrinsic correlation effects with angle-resolved photoemission spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28596-28602.	7.1	18
14	Equation of motion coupled-cluster cumulant approach for intrinsic losses in x-ray spectra. <i>Journal of Chemical Physics</i> , 2020, 152, 174113.	3.0	25
15	Core hole processes in x-ray absorption and photoemission by resonant Auger-electron spectroscopy and first-principles theory. <i>Physical Review B</i> , 2020, 101, .	3.2	11
16	Probing the Local Bonding at the Pt/ Al_2O_3 Interface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9876-9885.	3.1	10
17	Charge transfer satellites and chemical bonding in photoemission and x-ray absorption of SrTiO_3 and rutile TiO_2 .	3.2	14
18	Nonlinear response in the cumulant expansion for core-level photoemission. <i>Physical Review Research</i> , 2020, 2, .	3.6	9

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19	Energy-Dependent Relative Cross Sections in Carbon 1s Photoionization: Separation of Direct Shake and Inelastic Scattering Effects in Single Molecules. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7619-7636.	2.5	12
20	Corvus: a framework for interfacing scientific software for spectroscopic and materials science applications. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1694-1704.	2.4	5
21	Determination of the Crystal Structure of Gamma-Alumina by Electron Diffraction and Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 2036-2037.	0.4	1
22	Revisiting the origin of satellites in core-level photoemission of transparent conducting oxides: The case of n -doped SnO_2 . <i>Physical Review B</i> , 2018, 97, .	3.2	30
23	Cumulant Approach for Inelastic Losses in X-ray Spectra. <i>Springer Proceedings in Physics</i> , 2018, , 375-380.	0.2	0
24	Automated generation and ensemble-learned matching of X-ray absorption spectra. <i>Npj Computational Materials</i> , 2018, 4, .	8.7	82
25	Correlative Structure-Bonding and Stability Studies of $\text{Pt}/\text{Al}_2\text{O}_3$ Catalysts. <i>Microscopy and Microanalysis</i> , 2018, 24, 1644-1645.	0.4	1
26	Extended X-Ray Absorption Fine Structure of ZrW_2O_8 : Theory vs. Experiment. <i>Frontiers in Chemistry</i> , 2018, 6, 356.	3.6	8
27	Exchange and correlation in finite-temperature TDDFT. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	7
28	Quantitative first-principles calculations of valence and core excitation spectra of solid C_{60} . <i>Physical Review B</i> , 2017, 95, .	3.2	6
29	Finite Temperature Green's Function Approach for Excited State and Thermodynamic Properties of Cool to Warm Dense Matter. <i>Physical Review Letters</i> , 2017, 119, 176403.	7.8	34
30	Benchmark results and theoretical treatments for valence-to-core x-ray emission spectroscopy in transition metal compounds. <i>Physical Review B</i> , 2017, 96, .	3.2	43
31	Comparison of Spinel and Monoclinic Crystal Structures of Al_2O_3 for Simulation of Electron Energy Loss Spectra. <i>Microscopy and Microanalysis</i> , 2017, 23, 2020-2021.	0.4	0
32	Double-ionization satellites in the x-ray emission spectrum of Ni metal. <i>Physical Review A</i> , 2017, 96, .	2.5	10
33	A compact dispersive refocusing Rowland circle X-ray emission spectrometer for laboratory, synchrotron, and XFEL applications. <i>Review of Scientific Instruments</i> , 2017, 88, 073904.	1.3	40
34	Probing electronic structure of stoichiometric and defective SnO_2 . <i>Physical Review B</i> , 2017, 95, .	3.2	9
35	The effect of self-consistent potentials on EXAFS analysis. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 1173-1179.	2.4	3
36	Theory and Parameter Free Calculations of EELS and X-ray Spectra. <i>Microscopy and Microanalysis</i> , 2016, 22, 1408-1409.	0.4	1

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37	Geometry of electromechanically active structures in Gadolinium - doped Cerium oxides. AIP Advances, 2016, 6, 055320.	1.3	27
38	Particle-hole cumulant approach for inelastic losses in x-ray spectra. Physical Review B, 2016, 94, .	3.2	32
39	Real-time cumulant approach for charge-transfer satellites in x-ray photoemission spectra. Physical Review B, 2015, 91, .	3.2	38
40	Dynamical effects in electron spectroscopy. Journal of Chemical Physics, 2015, 143, 184109.	3.0	57
41	Polarization Dependent High Energy Resolution X-ray Absorption Study of Dicesium Uranyl Tetrachloride. Inorganic Chemistry, 2015, 54, 174-182.	4.0	41
42	Effects of Adsorbate Coverage and Bond Length Disorder on the d Band Center of Carbon Supported Pt Catalysts. ChemPhysChem, 2014, 15, 1569-1572.	2.1	17
43	Cumulant expansion for phonon contributions to the electron spectral function. Physical Review B, 2014, 90, .	3.2	30
44	Cumulant expansion of the retarded one-electron Green function. Physical Review B, 2014, 90, .	3.2	77
45	Multiple satellites in materials with complex plasmon spectra: From graphite to graphene. Physical Review B, 2014, 89, .	3.2	38
46	Intensity oscillations in the carbon $1s$ ionization cross sections of 2-butyne. Journal of Chemical Physics, 2013, 138, 234310.	3.0	12
47	Mitigation of X-ray damage in macromolecular crystallography by submicrometre line focusing. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1463-1469.	2.5	14
48	Theoretical optical and x-ray spectra of liquid and solid H_2O . Physical Review B, 2012, 85, .	3.2	47
49	Plasmon satellites in valence-band photoemission spectroscopy. European Physical Journal B, 2012, 85, 1.	1.5	27
50	X-ray absorption near-edge spectra of overdoped La_2CuO_4 . Physical Review B, 2011, 83, .	3.2	11
51	Real-space Green's function approach to resonant inelastic x-ray scattering. Physical Review B, 2011, 83, .	3.2	34
52	Bethe-Salpeter equation calculations of core excitation spectra. Physical Review B, 2011, 83, .	3.2	228
53	Valence Electron Photoemission Spectrum of Semiconductors: <i>Ab Initio</i> Description of Multiple Satellites. Physical Review Letters, 2011, 107, 166401.	7.8	120
54	L-edge XANES analysis of photoexcited metal complexes in solution. Physical Chemistry Chemical Physics, 2010, 12, 5551.	2.8	50

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55	Spatial dependence and mitigation of radiation damage by a line-focus mini-beam. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 1287-1294.	2.5	14
56	Parameter-free calculations of X-ray spectra with FEFF9. Physical Chemistry Chemical Physics, 2010, 12, 5503.	2.8	985
57	Real space calculation of optical constants from optical to x-ray frequencies. Physical Review B, 2009, 80, .	3.2	31
58	Many-pole model of inelastic losses applied to calculations of XANES. Journal of Physics: Conference Series, 2009, 190, 012009.	0.4	16
59	Ab initio theory and calculations of X-ray spectra. Comptes Rendus Physique, 2009, 10, 548-559.	0.9	468
60	Deconvolving instrumental and intrinsic broadening in core-shell x-ray spectroscopies. Physical Review B, 2007, 75, .	3.2	28
61	Many-pole model of inelastic losses in x-ray absorption spectra. Physical Review B, 2007, 76, .	3.2	68
62	Inelastic Losses and Multi-Electron Excitations in X-Ray Spectra. AIP Conference Proceedings, 2007, , .	0.4	3
63	Ab initio calculations of electron inelastic mean free paths and stopping powers. Physical Review B, 2006, 74, .	3.2	46
64	Green's function methods for excited states and x-ray spectra of functional materials. Electronic Structure, 0, , .	2.8	0